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EXECUTIVE DIRECTOR

PATENT APPLICATION
Docket No.: T4855.CIP

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

TRANSMITTAL FOR INFORMATION DISCLOSURE STATEMENT:
BEFORE PAYMENT OF ISSUE FEE

Assistant Commissioner for Patents
Washington, D.C. 20231

Sir:

Transmitted herewith for filing and pursuant to 37 C.F.R. § 1.97 is an Information Disclosure Statement.

Enclosed also are the following designated documents, as required under 37 C.F.R. §§ 1.97 and 1.98:

- Form PTO-1449 list of 18 references submitted for consideration.
- Legible copies of the listed references or their relevant portions.
- All English translations of each non-english reference, if any, within the possession, custody, control or availability of anyone designated in 37 C.F.R. § 1.56(c) (see 37 C.F.R. § 1.98(c)).

The following are included within the Information Disclosure Statement if applicable and as required under 37 C.F.R. § 1.98:

- Concise explanation of relevance of each reference not in English and unaccompanied by an English translation.

Assistant Commissioner for Patents

April 26, 2000

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Statement that certain listed references not enclosed are substantially cumulative of an enclosed reference.

Statement that certain listed references not enclosed were previously cited by or submitted to the Office in the identified prior application which is relied upon for an earlier filing date under 35 U.S.C. § 120.

In order to secure consideration of the items designated above, one or more of the following, if required, is also enclosed:

Promptness Certification.

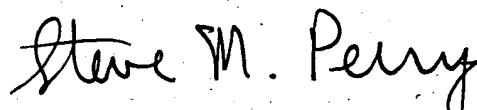
Check No. ____ in the amount of \$ (amount in § 1.17(p)) constituting the submission fee set forth in 37 C.F.R. § 1.17(p).

Petition for Consideration and Check No. ____ in the amount of \$(amount in § 1.17(i)(1)) constituting the petition fee set forth in 37 C.F.R. § 1.17(i)(1).

In the event that 37 C.F.R. § 1.97(c) applies and the Examiner is not satisfied that the Promptness Certification meets the requirements of 37 C.F.R. § 1.97(e), or in any other event remediable by a fee, please credit any over payment or charge any additional fees to Deposit Account No. 20-0100 of the undersigned.

Dated this 26 day of April, 2000.

Respectfully submitted,



Steve M. Perry
Attorney for Applicant
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Group 2700

PATENT APPLICATION
DOCKET NO. T4855.CIP

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANT: Joseph O. Norris, et al

CERTIFICATE OF DEPOSIT
UNDER 37 C.F.R. § 1.8

SERIAL NO.: 09/478,114

FILED: 01/04/2000

FOR: PIEZOELECTRIC FILM SONIC
EMITTER

ART UNIT: 2747

EXAMINER:

DOCKET NO.: T4855.CIP

I hereby certify that this correspondence is being deposited with the United States Postal Service as First Class Mail, postage prepaid, under 37 C.F.R. § 1.8 on the date indicated below and is addressed to Assistant Commissioner of Patents, Washington, D.C. 20231.

Karen Jacobson

4-28-2000

Date of Deposit

INFORMATION DISCLOSURE STATEMENT UNDER 37 C.F.R. § 1.97

Box: DD
Assistant Commissioner for Patents
Washington, D.C. 20231

Sir:

Please find, pursuant to 37 C.F.R. § 1.98(a)(1), the enclosed Form PTO-1449 which contains a list of all patents, publications, or other items that have come to the attention of one or more of the individuals designated in 37 C.F.R. § 1.56(c). Applicant respectfully submits that this Information Disclosure Statement is filed pursuant to 37 C.F.R. § 1.97 (b)(1), within three months

Assistant Commissioner for Patents
April 26, 2000
Page 2

of the filing date of the application or before the receipt of a first office action and requests that the references cited in the enclosed form PTO-1449 be made of record in the above-captioned application. While no representation is made that any of these references may be "prior art" within the meaning of that term under 35 U.S.C. §§ 102 or 103, the enclosed list of references is disclosed so as to fully comply with the duty of disclosure set forth in 37 C.F.R. § 1.56.

Moreover, while no representation is made that a specific search of office files or patent office records has been conducted or that no better art exists, the undersigned attorney of record believes that the references listed, together with any other references which may have been previously submitted or listed, are the closest to the claimed invention (taken in its entirety) of which the undersigned is presently aware, and no art which is closer to the claimed invention (taken in its entirety) has been knowingly withheld.

In accordance with 37 C.F.R. §§ 1.97 and 1.98, a copy of each listed reference (or relevant portion thereof) which was not previously submitted to, or cited by, the Patent Office is also enclosed.

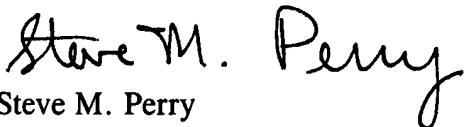
Since all listed references are either in the English language or are accompanied by a translation into English, no concise explanation of relevance is required under 37 C.F.R. § 1.98(a)(3).

Please charge any additional fees or credit any overpayment to Deposit Account No. 20-0100.

Assistant Commissioner for Patents
April 26, 2000
Page 3

DATED this 26 day of April, 2000.

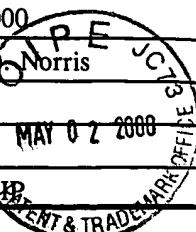
Respectfully submitted,


Steve M. Perry
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|---|--|------------------------|----------------------|------------------|
| PTO-1449 | U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE | | Application Number | 09/478,114 |
| LIST OF PRIOR ART CITED BY APPLICANT | | | Filing Date | 01/04/2000 |
| | | | First Named Inventor | Joseph C. Norris |
| | | | Group Art Unit | 2747 |
| | | | Examiner Name | |
| Sheet 1 of 1 | | Attorney Docket Number | T4855.CP | |



RECEIVED

| U.S. PATENT DOCUMENTS | | | | | | | |
|--------------------------|----|-----------------|----------|----------------|-------|---|-------------|
| EXAMINER INITIALS | | DOCUMENT NUMBER | DATE | NAME | CLASS | MAY 04, 2000 FILING DATE Group 2700 IF APPROPRIATE | |
| | AA | 5,357,578 | 10/18/94 | TANISHI | | | |
| | AB | 4,593,160 | 06/03/86 | NAKAMURA | | | |
| | AC | 5,287,331 | 02/15/94 | SHINDEL | | | |
| | AD | 5,153,859 | 10/06/92 | CHATIGNY | | | |
| | AE | 4,672,591 | 06/09/87 | BREIMESSER | | | |
| | AF | 4,558,184 | 12/10/85 | BUSCH-VISHNIAC | | | |
| | AG | 4,439,642 | 03/27/84 | REYNARD | | | |
| | AH | 4,429,193 | 01/31/84 | BUSCH-VISHNIAC | | | |
| | AI | 4,887,246 | 12/12/89 | HOSSACK ET AL | | | |
| | AJ | 4,888,086 | 12/19/89 | HOSSACK ET AL | | | |
| | AK | 4,695,986 | 09/22/87 | HOSSACK | | | |
| | AL | 4,284,921 | 08/18/81 | LEMONON ET AL | | | |
| | AM | 4,064,375 | 12/20/77 | RUSSELL ET AL | | | |
| | AN | 5,700,359 | 12/23/97 | BAUER | | | |
| FOREIGN PATENT DOCUMENTS | | | | | | | |
| | | DOCUMENT NUMBER | DATE | COUNTRY | CLASS | SUBCLASS | TRANSLATION |
| | | | | | | | YES NO |
| | | | | | | | |
| | | | | | | | |

OTHER PRIOR ART (Including Author, Title, Pertinent Pages, Etc.)

| | | |
|----|--|--|
| AO | | Aoki, K., et al., "Parametric Loudspeaker --Characteristics of Acoustic Field and Suitable Modulation of Carrier Ultrasound," <u>Electronics and Communications in Japan</u> , Part 3, Vol. 74, No. 9, pp. 76-82 (1991). |
| AP | | Makarov, S.N., et al., "Parametric Acoustic Nondirectional Radiator," <u>Acustica</u> , Vol. 77, pp. 240-242 (1992). |
| AQ | | Westervelt, P.J., "Parametric Acoustic Array," <u>The Journal of the Acoustical Society of America</u> , Vol. 35, No. 4, pp. 535-537 (1963). |
| AR | | Yoneyama, M., et al., "The Audio Spotlight: An Application of Nonlinear Interaction of Sound Waves to a New Type of Loudspeaker Design," <u>J. Acoust. Soc. Am.</u> , Vol. 75, No. 5, pp. 1532-1536 (1983). |

| EXAMINER | DATE CONSIDERED |
|----------|-----------------|
| | |

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.